

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: November 8, 2001, 23:33:07 ; Search time 244.42 Seconds
(without alignments)
15847.824 Million cell updates/sec

Title: US-09-227-881-3

Perfect score: 6169

Sequence: 1 atcttgcgttcacacac.....cttgcccccctcattgcag 6169

Scoring table:

OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 730101 seqs, 313950809 residues

Word size : 8

Total number of hits satisfying chosen parameters: 1169174

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

N_Geneseq_0601:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6169	100.0	6169	AAVS1368	Human TIGR upstrea
2	6169	100.0	6169	AAVS1368	A TIGR (trabecular
3	5220	84.6	5271	AAVS1368	A TIGR (trabecular
4	5008	81.2	5300	AAVS1368	A TIGR (trabecular
5	5007	81.2	5289	AAVS1361	Human TIGR promote
6	4957	80.4	5300	AAVS1362	Human TIGR promote
7	4957	80.4	5300	AAVS1363	Human TIGR promote
8	4957	80.4	5300	AAVS1365	Human TIGR promote
9	4957	80.4	5300	AAVS1366	Human TIGR promote
10	4957	80.4	5300	AAVS1367	Human TIGR promote
11	4731	76.7	5304	AAVS1364	Human TIGR promote

12	4476	72.6	5304	21	AAVS7485	A TIGR (trabecular
13	2285	37.0	2800	21	AAVS7968	Human GLC1A gene e
14	685	11.1	3493	19	AAVS37618	Human glaucoma ass
15	640	10.4	1548	19	AAVS1391	Human TIGR CDNA.
16	640	10.4	1548	21	AAVS57509	CDNA encoding trab
17	640	10.4	1890	20	AAVS7606	Human TIGR/MYC ge
18	640	10.4	1999	20	AAVS1910	Human trabecular m
19	640	10.4	1999	20	AAVS08904	TIGR protein codin
20	640	10.4	1999	22	AAVS87528	Human TIGR CDNA, S
21	640	10.4	2000	19	AAVS3484	trabecular meshwor
22	604	9.8	1512	20	AAVS08905	TIGR protein codin
23	604	9.8	1512	22	AAVS87529	Human TIGR CDNA op
24	604	9.8	1515	21	AAVS37974	Human GLC1A polype
25	553	5.9	1512	19	AAVS37619	Human glaucoma ass
26	366	5.9	1969	17	AAVS30152	trabecular meshwor
27	366	5.9	1969	19	AAVS28351	Nucleotide sequenc
28	330	5.3	1491	17	AAVS30153	trabecular meshwor
29	283	4.6	283	21	AAVS7514	trabecular meshwor
30	227	3.7	227	21	AAVS7515	trabecular meshwor
31	51	0.8	1491	21	AAVS7030	Human secreted pro
32	49	0.8	177	21	AAVS14260	Human secreted pro
33	49	0.8	241	21	AAVS3728	Human secreted pro
34	49	0.8	3065	21	AAVS00128	Human NIP2b CDNA.
35	47	0.8	344	14	AAVS0651	Human secreted pro
36	45	0.7	286	21	AAVS23207	Human secreted pro
37	44	0.7	119	21	AAVS22144	Human secreted pro
38	44	0.7	1014	20	AAVS30166	Human secreted pro
39	44	0.7	2274	21	AAVS52081	Human cellular ret
40	43	0.7	227	21	AAVS1647	Human secreted exp
41	43	0.7	654	21	AAVS01945	Human colon cancer
42	43	0.7	2008	19	AAVS39297	Human RAD54 nuclel
43	43	0.7	2824	21	AAVS59843	Human secreted pro
44	43	0.7	2900	20	AAVS17772	SAR-2 polypeptide
45	43	0.7	12729	22	AAVS97873	Human neuroblastom

ALIGNMENTS

RESULT 1	AAVS1368	standard; DNA; 6169 BP.
ID	AAVS1368	
XX	AAVS1368;	
AC	27-OCR-1998	(first entry)
DT	XX	
XX	Human TIGR upstream region and exon 1 DNA.	
DE	XX	
XX	TIGR; trabecular meshwork induced glucocorticoid response protein; human;	
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; ss.	
KW	XX	
OS	Homo sapiens.	
XX	XX	
FH	key	Location/Qualifiers
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FT		/note= "partial coding sequence"
FT	Intron	5941..6169
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FT		/number= 1
FT		/note= "partial intron sequence"
XX	W09832850-A1.	
XX	30-JUL-1998.	
PD	XX	
XX	09-JAN-1998;	98WC-US00468.
PF	XX	
XX	XX	

PR 26-SEP-1997: 97US-0938669.
XX 28-JAN-1997: 97US-0791154.
PA (REGC) UNIV CALIFORNIA.
XX
XX
PI Chen H, Chen P, Nguyen TD, Polansky JR;
XX
XX WPI: 1998-427946/36.
XX
XX Use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX
XX
PS Claim 37: Fig 3; 105pp; English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
XX protein (TIGR) upstream region and exon 1. This DNA sequence can be used
XX in a method for diagnosing glaucoma in a patient. The method involves the
XX detection of polymorphisms whose presence is predictive of a mutation
XX affecting TIGR response in the patient and can be diagnostic of glaucoma
XX or steroid sensitivity. Base substitutions and base additions upstream of
XX and within TIGR exons can also be used to diagnose glaucoma.
XX
SQ Sequence 6169 BP; 1702 A; 1389 C; 1491 G; 1587 T; 0 other:

Query Match 100.0%; Score 6169; DB 19; Length 6169;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 6169; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 atcttgctcagtttaactcaggagcctatctgaatgaaatgagataccaatgtgaaag 60
QY 61 tccataaactgtatagctcctcatctgcatgtatgtctcttgacagagatgataagaatca 120
DB 61 tccataaactgtatagctcctcatctgcatgtatgtctcttgacagagatgataagaatca 120
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Q	3901	taaaacaaacacacagtgtaaaatgctctcaagctcaagcctaaactgcagaaacaaatcaaa	3960
D	3901	taaaacaaacacacagtgtaaaatgctctcaagctcaagcctaaactgcagaaacaaatcaaa	3960

OY 3961 agaatagaatctttagagcaaacgtgttctccacactcgtgaagtgagctgcgaagc 4020
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Qy	781	gaca	tgtgt	ctaa	aa	ggcaaa	ccagaa	cat	tgt	tga	g	ct	tca	aa	g	ca	g	ca	g	ca	g	ca	g	ca	840		
Db	781	gaca	tgtgt	ctaa	aa	ggcaaa	ccagaa	cat	tgt	tga	g	ct	tca	aa	g	ca	g	ca	g	ca	g	ca	g	ca	840		
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Db	841	gg	gagcc	cttga	gg	gca	ttgtg	cc	tttga	ggaa	ggccag	tttctt	ctta	ggaa	tt	ctta	agaa	ctc	ta	agaa	ctc	900					
Qy	901	ct	gaa	aa	ga	ga	ca	tga	at	ctt	ta	aa	ca	tt	ta	aa	ca	aa	ta	tga	tcga	tga	tcga	960			
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RESULT 4
AAA57484
ID AAA57484 standard; DNA: 5300 BP.
AC
XX
XX AAA57484:
XX
XX 20-OCN-2000 (first entry)
XX
DE A TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter.
XX
XX *TIGR; trabecular meshwork inducible glucocorticoid receptor; promoter;
KM *glaucoma; steroid sensitivity; progressive ocular hypertension;
KM *vision loss; ss.
XX
XX Homo sapiens.
OS
XX
XX Key
FH Location/Qualifiers
FT replace (4337, G)
FT /*tag- a
FT /*note- "TIGRmt1 mutant"
FT mutation
FT /*tag- b
FT /*note- "TIGRmt2 mutant"
FT mutation
FT 4998
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FT FT /*tag- c
FT FT /*note- "TIGR added to produce TIGRmt3 mutant"
FT FT mutation
FT FT /*tag- d
FT FT /*note- "TIGRmt4 mutant"
FT FT mutation
FT FT /*tag- e
FT FT /*note- "TIGRmt11 mutant"
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FT FT 5067..5073
FT FT /*tag- f
FT FT 5230..5239
FT FT 7ATPA_signal
FT FT /*tag- g
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XX 07-MAY-1999; 99US-0306828.
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XX (REGC ) UNIV CALIFORNIA.
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XX Nguyen TD, Polansky JR, Chen P, Chen H;
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XX WPI; 2000-491060/43.
XX
XX
XX PT Diagnosis, prognosis and treatment of glaucoma, based on detecting
XX PT specific polymorphisms in the promoter of the trabecular meshwork
XX PT inducible glucocorticoid receptor gene -
XX
XX
XX PS Claim 34; Fig 1A-E; 122pp; English.
XX
XX CC The present sequence represents a TIGR (trabecular meshwork inducible
XX CC glucocorticoid receptor) promoter, isolated from an individual
XX CC without glaucoma. The specification describes a method for the diagnosis,
XX CC prognosis and treatment of glaucoma, based on detecting specific
XX CC polymorphisms in the promoter of the TIGR gene. The method is used for
XX CC diagnosis and prognosis of glaucoma (of all types), steroid sensitivity
XX CC and progressive ocular hypertension that leads to loss of vision.
XX CC Glaucoma can be treated by administering an agent that binds to
XX CC cis-acting elements within the TIGR promoter. The TIGR promoter (or
XX CC other regulatory regions) can be used to express homologous or
XX CC heterologous genes, particularly for tissue-specific expression of
XX CC therapeutic transgenes for treating glaucoma, also to generate
XX CC transgenic animals and in screening for compounds (specific modulators)
XX CC with diagnostic or therapeutic potential. Fragments of the TIGR
XX CC sequence can be used as amplification primers or probes, e.g. for
XX CC isolating related sequences in non-human animals.
XX
XX SQ Sequence 5300 BP; 1482 A; 1152 C; 1235 G; 1431 T; 0 other;
XX
XX
XX Query Match 81.2%; Score 5008; DB 21; Length 5300;
XX Best Local Similarity 99.9%; Pred. No. 0;
XX Matches 5298; Conservative 0; Mismatches 1; Indels 2; Gaps 2;
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XX |||||||
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XX |||||||
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RESULT 5
AAV51361
ID AAV51361 standard; DNA; 5299 BP.
XX
AC AAV51361:
XX
DT 27-OCT-1998 (first entry)
XX
DE Human TIGR promoter region DNA.
XX
KW TIGR; trabecular meshwork induced glucocorticoid response protein; human;
KM diagnosis; glaucoma; polymorphism; steroid sensitivity; ss.
XX
OS Homo sapiens.
XX
PN MO9832850-A1.
XX
PD 30-JUL-1998.
XX
PF 09-JAN-1998; 98WO-US00468.
XX
PR 26-SEP-1997; 97US-0938669.
PR 28-JAN-1997; 97US-0791154.
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XX
PA (REGC ) UNIV CALIFORNIA.
XX
PI Chen H, Chen P, Nguyen TD, Polansky JR.
XX
DR WPI: 1998-427946/36.
XX
PT Use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX
PS Claim 34, Fig 1; 105pp; English.
XX
CC This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter region which is used in a method for diagnosing
CC glaucoma in a patient. The method involves the detection of polymorphisms
CC whose presence is predictive of a mutation affecting TIGR response in the
CC patient and can be diagnostic of glaucoma or steroid sensitivity. Base
CC substitutions and base additions upstream of and within TIGR exons can
CC also be used to diagnose glaucoma.
XX
SQ Sequence 5299 BP; 1482 A; 1151 C; 1235 G; 1431 T; 0 other;
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Query Match 81.2%; Score 5007; DB 19; Length 5299;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 1; Indels 2; Gaps 2;
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Db 1021 ggaatagtctagaataatctatagaataactgtgtcccaatccctaacttctcagaatgatac 1080
Oy 1081 tgtcaatagcccttcacacacagcccgatgtgtctgaactataacacacttataacaccaa 1140
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Db 1141 gtgcctcaacacatgttatacgtgtcatctcagtaggtcccatataaataatgtccacactccc 1200
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Db 1441 gtttcaacataattagcccggtgtgtcttgaaactcttgacactcaggtgatatccacacactc 1500
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Oy 1801 ttccaattggggccaatctgtgtgtgtataggggaggaaggtcatrccccagagactctc 1860
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Db 1861 tgaagcccccgacagaggttctcctctccagcttggtggggagcccttcgaacacacccgggtcc 1920
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[illegible]

Dh	3961	agbaataagaa	acttttagagcaaac	ctgcttccac-ccggaaggagctgcacagg	4013	
Qy	4020	caagtctggaata	ttactctcacaag	tacagctctgtctgta	4075	
Dh	4020	caagtctggaata	ttactctcacaag	tacagctctgtctgta	4075	
Qy	4080	ttgctcaagaggaat	catattttaa	gugcttaagttactcttcagacgctttgtata	4133	
Dh	4080	ttgctcaagaggaat	catattttaa	gugcttaagttactcttcagacgctttgtata	4133	
Qy	4140	tttatctgcatctg	ccatttgcctttctcctccttggttt	taataagtaagca	4195	
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Qy	4200	gggattataa	acttaacag	tccagaagcctgtgaattgaa	4255	
Dh	4200	gggattataa	acttaacag	tccagaagcctgtgaattgaa	4255	
Qy	4260	tgttttaacaccc	cttcaactaa	tttaacattttccattctggaataga	4319	
Dh	4260	tgttttaacaccc	cttcaactaa	tttaacattttccattctggaataga	4319	
Qy	4320	actcaagatg	bybaa	acagtaacgtctgtattgtcata	4379	
Dh	4320	actcaagatg	bybaa	acagtaacgtctgtattgtcata	4379	
Qy	4380	ttatacaatata	caagtctgtgaaga	taagtttgaagtaattttatctcaaac	4433	
Dh	4380	ttatacaatata	caagtctgtgaaga	taagtttgaagtaattttatctcaaac	4433	
Qy	4440	actcttgaata	ttagaactctctgtgaactctgtttta	acaataaacaatctta	4499	
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Qy	4560	taataatttga	aaacac	cttctctagaagagctcccca	4619	
Dh	4560	taataatttga	aaacac	cttctctagaagagctcccca	4619	
Qy	4620	gcaatgacaca	cacagag	taagaaatgattagaagctaac	4679	
Dh	4620	gcaatgacaca	cacagag	taagaaatgattagaagctaac	4679	
Qy	4680	atgcgaagct	gtiaaatttga	aaatcttcccaata	4739	
Dh	4680	atgcgaagct	gtiaaatttga	aaatcttcccaata	4739	
Qy	4740	gagggggg	aaatctgcgcgtctctata	agaaatgctcccttggaagcctgtgaagctgt	4799	
Dh	4740	gagggggg	aaatctgcgcgtctctata	agaaatgctcccttggaagcctgtgaagctgt	4799	
Qy	4800	cctgtgtctgc	gtgcgtgttatttctctctgtcc	gtcagctcaaggaactgtt	4859	
Dh	4800	cctgtgtctgc	gtgcgtgttatttctctctgtcc	gtcagctcaaggaactgtt	4859	
Qy	4860	tgaatcccaat	cttcctgca	taagctgcgcgaaggtcttccaa	4919	
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Qy	4920	gtgaaatg	aaataa	ataatac	cttgttgaatacagcacacag	4979
Dh	4920	gtgaaatg	aaataa	ataatac	cttgttgaatacagcacacag	4979
Qy	4980	gtgaaatg	aaataa	ataatac	cttgttgaatacagcacacag	5039
Dh	4980	gtgaaatg	aaataa	ataatac	cttgttgaatacagcacacag	5039
Qy	5040	ataagaa	ctata	ctggagata	gtgacataatctggaatgtctcttcaaa	5099

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Db 5040 atagaactatattggtatcggtatgcatataatggtatgtctcttttaaaagaact 5099
Oy 5100 ccaaacgactctggaggtattcttaagaatcttgctggcagcgttgaaagcaacc 5159
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Oy 5220 ggtcccccataataaacctctctggagctcggtgcattgagccaggaaggccacct 5279
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Db 5220 ggtcccccataataaacctctctggagctcggtgcattgagccaggaaggccacct 5279
Oy 5280 ccaaggcactctcagccag 5299
    |||||||
Db 5280 ccaaggcactctcagccag 5299

RESULT 6
AAV51362 standard; DNA: 5300 BP.
ID AAV51362;
XX
AC AAV51362;
XX
DT 27-Oct-1998 (first entry)
XX
DE Human TIGR promoter mutant TIGRmt1 DNA.
XX
KW TIGR: trabecular meshwork induced glucocorticoid response protein; human;
KM diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
XX Location/Qualifiers
FH Key 4337
FT mutation /*tag= a
TT /note= "Wild type C is replaced by G"

WO9832850-A1.
XX
PN 30-JUL-1998.
XX
PD 09-JAN-1998: 98WO-US00468.
XX
PE 26-SEP-1997: 97US-0938669.
XX
PR 28-JAN-1997: 97US-0791154.
XX
XX (REGC ) UNIV CALIFORNIA.
XX
PA
XX
PI Chen H, Chen P, Nguyen TD, Polansky JR:
XX
XX MPI: 1998-427946/36.
XX
DR
XX
XX Use of TIGR nucleic acid sequences - used for, e.g. developing
PT products for diagnosis, prognosis and treatment of glaucoma
XX
XX
PS Disclosure: Fig 2; 105pp; English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter mutant, TIGRmt1, which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
XX
XX
SQ Sequence 5300 BP: 1482 A; 1151 C; 1236 G; 1431 T; 0 other;
```

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Matches 5297; Conservative 0; Mismatches 2; Indels 2; Caps 2;
Oy 1 atcttcttcagtttacctcagggctattatgaaatgaatgaataaccatgtgaag 60
    |||||||
Db 1 atcttcttcagtttacctcagggctattatgaaatgaatgaataaccatgtgaag 60
Oy 61 tccataaactgtatagccctcattcgatgtatgtctcttggcggatgataaagaatca 120
    |||||||
Db 61 tccataaactgtatagccctcattcgatgtatgtctcttggcggatgataaagaatca 120
Oy 121 ggaagaaggatataccacgtatagccaagtgtccaggctgtgtccgctcttaatttga 180
    |||||||
Db 121 ggaagaaggatataccacgtatagccaagtgtccaggctgtgtccgctcttaatttga 180
Oy 181 cagatgtgtctcttgacagaagctattcttcaggaaacatcatccaatatggttaatc 240
    |||||||
Db 181 cagatgtgtctcttgacagaagctattcttcaggaaacatcatccaatatggttaatc 240
Oy 241 catcaaacaggagcttaagaaacaggaaatggaatggcactgtgcccaaggaaatgtccag 300
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Db 241 catcaaacaggagcttaagaaacaggaaatggaatggcactgtgcccaaggaaatgtccag 300
Oy 301 gagagcaaatatgatgaaaaataaactttcccttgttttlaatttcaggaaaaaatg 360
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Db 301 gagagcaaatatgatgaaaaataaactttcccttgttttlaatttcaggaaaaaatg 360
Oy 361 atggagccaaatcaatgaataagaaacagctcagaaaaagaatgttccaaattgg 420
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Oy 421 taattaaatttcttctcttgggaagagacctcattgagctgtatggtggaataatggaa 480
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Db 421 taattaaatttcttctcttgggaagagacctcattgagctgtatggtggaataatggaa 480
Oy 481 aaacgtcacaagcatgatctgatcatgcccaaggtgatatattttaaataaccagat 540
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    |||||||
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Oy 781 gacatggttaaaagcaaccagaaacatgttgaagctttaaagcagcagctgacctcgca 840
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Oy 841 gggacccctgaagcatttgcctttaggaagggcagtttctctaagaaatcttaagaanaatc 900
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Db 841 gggacccctgaagcatttgcctttaggaagggcagtttctctaagaaatcttaagaanaatc 900
Oy 901 ttgaaagatcatgaattttaaaccatttaagataaaaacaatatgcatgataatcag 960
    |||||||
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    |||||||
Db 1021 ggaatagtcagaataatcatagaataatcactgtctcccatccataactttcagaatgac 1080
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Oy	1081	tgctaatgcccctcaacacacagcccgatgltcttgacctaaacacactataacccaa	1140
Db	1081	tgtcaatagccctccacacacagcccgatgltcttgacctaaacacactataacccaa	1140
Oy	1141	gtgcctcaaaccatctgttaagtgctcatctcaatgaggtcccatatcaaaatgcacctccc	1200
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Oy	1201	tgctgagcccatctccgctccacacaggaatctcccacactagaactcttgatacagatg	1260
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Oy	1261	tacagacgaagaagctccgttgagggctgaggggtctgtgtcttaacactactgtatgctctac	1320
Db	1261	tacagacgaagaagctccgttgagggctgaggggtctgtgtcttaacactactgtatgctctac	1320
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Db	1501	agcctccataaagctgcgtggagatctacagacatgagctcacgcgcgcgcgcgaaggtctcag	1560
Oy	1561	ctaaataaggaataaacttgaaatggttctactaaacaaacagggaaacagacaagaactgtga	1620
Db	1561	ctaaataaggaataaacttgaaatggttctactaaacaaacagggaaacagacaagaactgtga	1620
Oy	1621	taattctcaggaattctcttgagataagggaaatggtccatctgagctgcctgccttaagcccaag	1680
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Oy	1681	cacctgctccatcaactctctctcccatcactatcttccaggtcaagttcaactcttcat	1740
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Db	1861	tgaaagcccccgcagagaatcttcctctctccagcttgaggagccctgcagaaccccgggtccc	1920
Oy	1921	tgagggtctccctggagcaaacccgcagaccgcgtgcacatggttctgttatacactcttagg	1980
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Oy	1981	gaacgtctctctcaatactctgtgtgaactcgttcaactcaatccaggaattcaatgtgaact	2040
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Qy	2161	gccaacttaaacccaagtcgtgnaaagaaataaaccactcttgaaagtctgtgc	2220
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Qy	2221	agcacccttaacaaggccaactccctagagcccccctgtgcctccactgtgcggggg	2280
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Qy	2461	ctcagaaggnaaaggcgctcccaagtcccaagagaaatctcagaagcttgaggactctgacaggag	2520
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Qy	2521	tggggacgcctggggcctgagcgggtgtctcgaaagtcagaaagcttgaaaaggcgaaagctgaa	2580
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Qy	2701	ataaagctacgctgtctaaatctcaaggtgtgtgcatctgggtcttctccacgaagccttat	2760
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Qy	2761	ttaatgggaataatgagagagagactcaattctccaaagcgtttaatctcagagaaagtgac	2820
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Oy 5280 ccaggaacctctcagcacagc 5300
Db 5280 ccaggaacctctcagcacagc 5300

RESULT 7
AAVS1363
ID AAVS1363 standard; DNA; 5300 BP.
XX
AC AAVS1363;
XX

DT 27-OCT-1998 (first entry)
XX Human TIGR promoter mutant TIGRmt2 DNA.
XX TIGR: trabecular meshwork induced glucocorticoid response protein: human;
KM dleognosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
OS Homo sapiens.
XX Synthetic.
XX Key Location/Qualifiers
FH mutation 4950 /tag= a
FT /note= "Wild-type C is replaced with T"
XX WO9832850-A1.
XX 30-JUL-1998.
XX 09-JAN-1998: 98WO-US00468.
XX 26-SEP-1997: 97US-0938669.
XX 28-JAN-1997: 97US-0791154.
XX (REGC) UNIV CALIFORNIA.
XX Chen H, Chen P, Nguyen TD, Polansky JR;
PI WPI: 1998-427946/36.
XX Use of TIGR nucleic acid sequences - used for, e.g. developing
PT products for diagnosis, prognosis and treatment of glaucoma
XX Disclosure: Fig 2; 105pp; English.
XX This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter mutant, TIGRmt2, which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
XX Sequence 5300 BP; 1482 A; 1151 C; 1235 G; 1432 T; 0 other;
SQ
Query Match 80.4%; Score 4957; DB 19; Length 5300;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

QY 361 atgagaccacaaatcaatgaataaggaaacagctcagaaaaaagatgttccaaatgg 420
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[illegible]

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Qy	4440	actcttgaatctagaacctctcgtcgtgactcgtgttttaacaatatataaaacatggtttaa	4499
Dh	4440	actcttgaatctagaacctctcgtcgtgactcgtgttttaacaatatataaaacatggtttaa	4499
Qy	4500	aactcttgatattttgttaatactatatttcaattcaattgtttccctctgtaactataatc	4559
Dh	4500	aactcttgatattttgttaatactatatttcaattcaattgtttccctctgtaactataatc	4559
Qy	4560	taataatacttgaaaaaactctctcgaagaagaagttccccaagattccacaagaagaagttccgtg	4619
Dh	4560	taataatacttgaaaaaactctctctggaagaagaagttccccaagattccacaagaagaagttccgtg	4619
Qy	4620	gcaatgcacacacagagtaagaagaatctcccaagaattccacaagaagaagaagttccgtg	4679
Dh	4620	gcaatgcacacacagagtaagaagaatctcccaagaattccacaagaagaagaagaagttccgtg	4679
Qy	4680	atgcagaagctgaaatctagaagaagtctctcccaagaataacaacagttgttttaaaagctaaaggtc	4739
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QY	4740	gaggggggaaatctcgccgctctctataaggaaatgcctccctggagcctggtaaggctgct	4799
Db	4740	gaggggggaaatactgcgcgctctctataaggaaatgcctccctggagcctggtaaggctgct	4799
QY	4800	ccctgtgtctcggcgcgcgtgttatctttctccctccctgttaagctcttaagaagactgtct	4859
Db	4800	ccctgtgtctcggcgcgcgtgttatctttctccctccctgttaagctcttaagaagactgtct	4859
QY	4860	tggatctccagttctctagcatagtgccctggcacagtgacagtgctctcaatgagttctgcaga	4919
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QY	4920	gtgaatggaataataaactagaaataataccctgttgaaatcagcacaccagtaagtctg	4979
Db	4920	gtgaatggaataataaactagaaataataccctgttgaaatcagcacaccagtaagtctg	4979
QY	4980	gtgtgaatggtgtgtacgt	5039
Db	4980	gtgtgaatggt	5039
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QY	5100	ccaacacagactctgtgaaggttatcttctctaaagacttgctgtgcagcgtggaagcaacc	5159
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QY	5160	ccctgtgtgacagcccccacagcctcagctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt	5219
Db	5160	ccctgtgtgacagcccccacagcctcagctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt	5219
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Db	5280	ccaagcacctctctcagcacagc	5300
RESULT 8			
AAVS1365			
ID	AAVS1365 standard; DNA; 5300 BP.		
AC	AAVS1365;		
XX			
DT	27-OCT-1998 (first entry)		
XX			
DE	Human TIGR promoter mutant TIGRmt4 DNA.		
XX			
KW	TIGR; trabecular meshwork induced glucocorticoid response protein; human;		
KM	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.		
XX			
OS	Homo sapiens.		
XX			
XX	Synthetic.		
XX			
FH	Key		
FT	mutation		
FT			
FT			
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PD	30-JUL-1998.		
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PR	26-SEP-1997; 97US-0938669.		
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XX			
PA	(REGC) UNIV CALIFORNIA.		

XX Chen H, Chen P, Nguyen TD, Polansky JR;
PI
XX
DR WPI: 1998-427946/36.
XX
XX
PT Use of TIGR nucleic acid sequences - used for, e.g. developing
PT products for diagnosis, prognosis and treatment of glaucoma
XX
XX
PS Disclosure: Fig 2: 105pp: English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter mutant, TIGRMt4, which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
XX
SO Sequence 5300 BP: 1481 A; 1152 C; 1236 G; 1431 T; 0 other;

Query Match	80.48	Score 4957	DB 19	Length 5300
Best Local Similarity	99.98	Pred. No. 0		
Matches 5297	Conservative	0	Mismatches 2	Indels 2
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Oy	121	ggaagaaagtgatataccacgtatgcacaaagtgtccaggtctgtctgtcccttattttgtag	180
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Oy	181	cagatgtgtgcctccgcgcacgaagacatctcttccaggaataacacataccaatatgttaact	240
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Oy	241	catcaaacacgagcgtcaagaaacaggaatgagatggtgcactgtgcccaaggaataatgcag	300
Db	241	catcaaacacgagcgtcaagaaacaggaatgagatggtgcactgtgcccaaggaataatgcag	300
Oy	301	gagagcacaataatgataaataaataactttctcccttgcttttaatttcgcggaaaaatg	360
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Oy	361	atgaggaacacaaatacaatgnaataaggaacacagctccgcgaataaagaatgcttcccaaat	420
Db	361	atgaggaacacaaatacaatgnaataaggaacacagctccgcgaataaagaatgcttcccaaat	420
Oy	421	taattatagttattgttctctcttgggaagagacctccatgtagcttgatggtggaaaaatgggaa	480
Db	421	taattatagttattgttctctcttgggaagagacctccatgtagcttgatggtggaaaaatgggaa	480
Oy	481	aaacgttcaaaaagcctgatactgtatcagaatccccaagtcgatataattttttaaaccagat	540
Db	481	aaacgttcaaaaagcctgatactgtatcagaatccccaagtcgatataattttttaaaccagat	540
Oy	541	ggcatcactctggggaggtgcaaatctcagaagaagttcatgtttagcaaaagacataacaataac	600
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Db	601	agcaaaaatacaaaaatccgcacaaatgcagagaaggaataatgggaatcgtggaaagctttcataac	660
Oy	661	agtgtattagtgacgttgcacaatgcttcgcgaacacccctccctctctataccagagaacacaaa	720
Db	661	agtgtattagtgacgttgcacaatgcttcgcgaacacccctccctctctataccagagaacacaaa	720

QY	721	atcgactcggtctaaagcctctgacttctcaagggaaatactgaaaacctcgagacgaacaacaa	780
Db	721	atcgactcggtctaaagcctctgacttctcaagggaaatactgaaaacctcgagacgaacaacaa	780
QY	781	gacacggtctaaagacaaacgaagacattctgagacctctaaagcagcagctgcccccaaga	840
Db	781	gacacggtctaaagacaaacgaagacattctgagacctctaaagcagcagctgcccccaaga	840
QY	841	ggagaccctgaagacattctgacctctaaaggaagccagcttctctaaaggaactctaaagaactc	900
Db	841	ggagaccctgaagacattctgacctctaaaggaagccagcttctctaaaggaactctaaagaactc	900
QY	901	ctgaaagatctgaattcttaacattttaaagtaataaacaatatcgatctaatatcag	960
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QY	961	cttagacactggtcccaattcttaagtcagggcatataaggtatagctgtgccccagctcc	1020
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QY	1021	ggatctgctcaagaatactctaaagaaatcactctgtgtccccaccccaactctctcaagaatgac	1080
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QY	1081	tgctaatgacctctacacacagcgcccgatctgtctcgtacatacaacacatctacaaccca	1140
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QY	1201	ctgtcagacccaaccgcgtctcaacagaagagctctcccaactctaaactctcgatctcaagatgt	1260
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QY	1681	cactggtctccataacttctctccctacatccatcttcaagcctgaagttacatcttatt	1740
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QY	1741	caacacgtctctctgctgaagcctccacacatcgcttaactctgaataaggtatatacctaaactag	1800
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[illegible]

Query Match	80.4%;	Score 4957;	DB 19;	Length 5300;
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Db 5100	cccccaagactcttggaaggtatcttctcaagaatcttgtagcagctgaaggaacc	5159		
QY 5160	ccctctgcacagcccccacagcctacgctggccacctctgtcttccccaatgaagggt	5219		
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RESULT 9				
AAVS1366	AAVS1366 standard; DNA; 5300 BP.			
XX	AAVS1366;			
XX	27-OCT-1998 (first entry)			
DE	Human TIGR promoter mutant TIGRmt5 DNA.			
XX	TIGR: trabecular meshwork induced glucocorticoid response protein; human;			
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.			
XX	Homo sapiens.			
OS	Synthetic.			
XX	Key	Location/Qualifiers		
FF	mutation	4262		
FF	/tag= a			
FF	/note= "Wild-type G is replaced with A"			
PN	W09632850-A1.			
XX	30-JUL-1998.			
XX	09-JAN-1998; 98WO-US00468.			
XX	26-SEP-1997; 97US-0938669.			
PR	28-JAN-1997; 97US-0791154.			
PA	(RECC) UNIV CALIFORNIA.			
PI	Chen H, Chen P, Nguyen TD, Polansky JR.			
DR	WPI; 1998-427946/36.			
PT	Use of TIGR nucleic acid sequences - used for, e.g. developing			
PT	products for diagnosis, prognosis and treatment of glaucoma			
PS	Disclosure; Fig 2; 105pp; English.			
CC	This sequence is a trabecular meshwork induced glucocorticoid response			
CC	protein (TIGR) promoter mutant, TIGRmt5, which is used in a method for			
CC	diagnosing glaucoma in a patient. The method involves the detection of			
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR			
CC	response in the patient and can be diagnostic of glaucoma or steroid			
CC	sensitivity. Base substitutions and base additions upstream of and within			
CC	TIGR exons can also be used to diagnose glaucoma.			
SO	Sequence 5300 BP; 1483 A; 1152 C; 1234 G; 1431 T; 0 other;			

OY 1 atcttcttgatgatttacttaagggtctatctgaaatgaaatgagataaaccatgtgaaag 60
Db 1 atcttcttgatgatttacttaagggtctatctgaaatgaaatgagataaaccatgtgaaag 60
OY 61 tccataaactgataagccctccatctcgagatgatagtcttcttgagaggaatgataagaaatca 120
Db 61 tccataaactgataagccctccatctcgagatgatagtcttcttgagaggaatgataagaaatca 120
OY 121 ggaagaagaatgataaccagcttaagcaagtgatccagagctgtgtctgctctattctgagtgaa 180
Db 121 ggaagaagaatgataaccagcttaagcaagtgatccagagctgtgtctgctctattctgagtgaa 180
OY 181 cagaatgtctgtctctgagcaagaatctatctctcagagaaacatcacatccaaatgataatc 240
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OY 301 gagaagcaaatgaatgataaataaataaacttccctctgtcttcttaattctcagaaaaatg 360
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OY 421 taataaagataatgtctccctgaggaagaagacctcagatgtgagctgtgagtaagaaatggaa 480
Db 421 taataaagataatgtctccctgaggaagaagacctcagatgtgagctgtgagtaagaaatggaa 480
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Db 1081 tgtcataagccctcacaacagagcccgatgtgtctgagactcaaacacacatctcaaacccaa 1140
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Db 1141 gtgcctcaaacatgtttaaagtgatcaatcagataggtcccatataaagtccacctccccc 1200
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Db 4260 tctgttcttaacacacttcaactaaatcttaacatcttaacttcgcaatagagccaata 4319
OY 4320 actcaaaagtgttaataacagtaactgtagattctgcatatcaacaaatagaataacagacat 4379
Db 4320 actcaaaagtgttaataacagtaactgtagattctgcatatcaacaaatagaataacagacat 4379

[illegible]

RESULT	10
AAV51367	
ID	AAV51367 standard; DNA; 5300 Bp.
XX	
AC	AAV51367;
XX	
DT	27-OCT-1998 (first entry)
XX	

DE	Human TIGR promoter variant TIGRsv1 DNA.
XX	
KW	TIGR: trabecular meshwork induced glucocorticoid response protein; human,
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX	
OS	Homo sapiens.
OS	Synthetic.
FX	
FX	Key
FT	Location/Qualifiers
FT	4406
FT	/tag- a
FT	/note- "Wild-type A is replaced by G"
PN	
PN	W09832850-A1.
XX	
PD	30-JUL-1998.
XX	
PF	09-JAN-1998; 98WO-US00468.
XX	
XX	26-SEP-1997; 97US-0938669.
PR	28-JAN-1997; 97US-0791154.
XX	
PA	(REGC) UNIV CALIFORNIA.
XX	
PI	Chen H, Chen P, Nguyen TD, Polansky JR;
XX	
DR	WPI; 1998-427946/36.
XX	
PT	Use of TIGR nucleic acid sequences - used for, e.g. developing
PT	products for diagnosis, prognosis and treatment of glaucoma
XX	
PS	Disclosure: Fig 2; 105pp; English.
XX	
XX	
CC	This sequence is a trabecular meshwork induced glucocorticoid response
CC	protein (TIGR) promoter variant, TIGRsv1, which is used in a method for
CC	diagnosing glaucoma in a patient. The method involves the detection of
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR
CC	response in the patient and can be diagnostic of glaucoma or steroid
CC	sensitivity. Base substitutions and base additions upstream of and within
CC	TIGR exons can also be used to diagnose glaucoma.
XX	
XX	
Sequence	5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other;

[illegible]

Db	361	atgagagccaaaatcaatgaaataagaaagatcgcgaataaagaatgcttcccaattgg	420
Oy	421	taattaaatcttgctctctgaggagaacctccaatgagcttgatgaggaaaatgaggaa	480
Db	421	taattaaatcttgctctctgaggagaacctccaatgagcttgatgaggaaaatgaggaa	480
Oy	481	aaagctaaaagaatgctgctgaaatcccaagtggaattatattttaaaaaccagat	540
Db	481	aaagctaaaagaatgctgctgaaatcccaagtggaattatattttaaaaaccagat	540
Oy	541	gagcaactctgaggagagcaagctcaagaaagtcagtctgaacaaaggacataaacaatac	600
Db	541	gagcaactctctgaggagagcaagctcaagaaagtcagtctgaacaaaggacataaacaatac	600
Oy	601	agcaaaaatcaaaaatcccgcaaaatgcaagaggaataatgggagctggaaaagcttcaaac	660
Db	601	agcaaaaatcaaaaatcccgcaaaatgcaagaggaataatgggagctggaaaagcttcaaac	660
Oy	661	agtgatctaggcagcttgacatgctcgcaaacctcccgctctatatacgaaggaaacacaaa	720
Db	661	agtgatctaggcagcttgacatgctcgcaaacctcccgctctatatacgaaggaaacacaaa	720
Oy	721	atgacctgggctaaagccctggagcttcaagggaaaatagaaaanaactggagagcaaaaacaaa	780
Db	721	atgacctgggctaaagccctggagcttcaagggaaaatagaaaanaactggagagcaaaaacaaa	780
Oy	781	gacatggcttaaaaagcaaacgaatactgtagacctcaaaagcagctgcccctcagca	840
Db	781	gacatggcttaaaaagcaaacgaatactgtagacctcaaaagcagctgcccctcagca	840
Oy	841	ggagccctgaggacattgaccttgaggaaaggcagcttctctaaagaatcttaaaaatactc	900
Db	841	ggagccctgaggacattgaccttgaggaaaggcagcttctctaaagaatcttaaaaatactc	900
Oy	901	ctgaaaagatcagatcttcaaccaattcaagtaaaaaaataatgctgatacaatcag	960
Db	901	ctgaaaagatcagatcttcaaccaattcaagtaaaaaaataatgctgatacaatcag	960
Oy	961	ctttagacaatggtgtcccaattctataaagctcaggtacatacaaaatgctgccagctcc	1020
Db	961	ctttagacaatggtgtcccaattctataaagctcaggtacatacaaaatgctgccagctcc	1020
Oy	1021	ggataggtctcagaataatctaaagaatacactgtgtccccaatccaaactcttcaagaatgac	1080
Db	1021	ggataggtctcagaataatctaaagaatacactgtgtccccaatccaaactcttcaagaatgac	1080
Oy	1081	tgctatagccctcaacacagagccgagatgctgtaacctatacaacacacatcctcaaacccaa	1140
Db	1081	tgctatagccctcaacacagagccgagatgctgtaacctatacaacacacacatcctcaaacccaa	1140
Oy	1141	gtgcctcaaaccaatgcttaaaagtctcaaggtacaggaataagctgtgccagctccc	1200
Db	1141	gtgcctcaaaccaatgcttaaaagtctcaaggtacaggaataagctgtgccagctccc	1200
Oy	1201	tgtagagcccaatcccgctcccaaggaagctccccaactctgaagctctcgaatacagatgt	1260
Db	1201	tgtagagcccaatcccgctcccaaggaagctccccaactctgaagctctcgaatacagatgt	1260
Oy	1261	taacagcagaagagctcgtgtaggggtcgtgcttaaacctaaacctgatagtctctaac	1320
Db	1261	taacagcagaagagctcgtgtaggggtcgtgcttaaacctaaacctgatagtctctaac	1320
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Oy	1381	cggctgaactgagactaaaggagcagccggcctaaattcttattgttaagtagagatggg	1440
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Oy	1501	agctctctaagtgctgaggatacaggaatgataccgctccggccaaggtctcagtgtc	1560
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Oy	1561	cttaataaggaaataacttgaaatggtcttaacaaacaaacagggaaaacagaaagctgtgaa	1620
Db	1561	cttaataaggaaataacttgaaatggtcttaacaaacaaacagggaaaacagaaagctgtgaa	1620
Oy	1621	taattcaaggagatctcttgaggatggggaatggctgcaatgagctgacctgagctccagac	1680
Db	1621	taattcaaggagatctcttgaggatggggaatggctgcaatgagctgacctgagctccagac	1680
Oy	1681	caactgtccctcaataactctctccctcaactcaatttcagagctcaagttaacatttact	1740
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Oy	1741	caactgtcttctgtgtaagctccacaatgcttaactgaaataagatataataaactag	1800
Db	1741	caactgtcttctgtgtaagctccacaatgcttaactgaaataagatataataaactag	1800
Oy	1801	ctccatttgaggacatctgtgtgtgtaataaggagagggcatalaccccaagactcct	1860
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Oy	1861	tgaagcccccggcagaaggtcttcctctccagctggggagagccctgcaagcaccgggtctc	1920
Db	1861	tgaagcccccggcagaaggtcttcctctccagctggggagagccctgcaagcaccgggtctc	1920
Oy	1921	tggtgtctcctgagcaaacctgacagcccgctgcacatgtgtgtttgtttatcaactctagg	1980
Db	1921	tggtgtctcctgagcaaacctgacagcccgctgcacatgtgtgtttgtttatcaactctagg	1980
Oy	1981	gacctgtgtctcttacttctctgtgtgactcgttcaatcatccaggaatctgaacaatt	2040
Db	1981	gacctgtgtctcttacttctctgtgtgactcgttcaatcatccaggaatctgaacaatt	2040
Oy	2041	tattgtgacttatactctgcgacagacacagagaacaaaatggctgagcaaaagctcactgc	2100
Db	2041	tattgtgacttatactctgcgacagacacagagaacaaaatggctgagcaaaagctcactgc	2100
Oy	2101	cctacactcgttgaggagtgacagttctctcatggaagagctgacagaagaataatcaatagca	2160
Db	2101	cctacactcgttgaggagtgacagttctctcatggaagagctgacagaagaataatcaatagca	2160
Oy	2161	gccaacttaaacccagtgctgaaagaaaggaataaacaacatcttgaaagatctgtgcgc	2220
Db	2161	gccaacttaaacccagtgctgaaagaaaggaataaacaacatcttgaaagatctgtgcgc	2220
Oy	2221	agcatcccttaacaagacgaacctccctagcgccctgtcctcccatctgtgcccggag	2280
Db	2221	agcatcccttaacaagacgaacctccctagcgccctgtcctcccatctgtgcccggag	2280
Oy	2281	cccccaagccggagctctctcaagcctctctctcaatgaagtacagcggtgtagcctggcct	2340
Db	2281	cccccaagccggagctctctcaagcctctctctcaatgaagtacagcggtgtagcctggcct	2340
Oy	2341	gctctgactctccgttgaaatcgtctcgtgtgacatctgagctcggagaccccttgctccaggtc	2400
Db	2341	gctctgactctccgttgaaatcgtctcgtgtgacatctgagctcggagaccccttgctccaggtc	2400
Oy	2401	ccagaagaagaaatgagagaggaataactagctcaacggagaaatctggaaggagctgcttc	2460
Db	2401	ccagaagaagaaatgagagaggaataactagctcaacggagaaatctggaaggagctgcttc	2460
Oy	2461	cttcagaagggaaggagccctcagctccagggagaaattccaaggaggtgaggaactgcaaggag	2520
Db	2461	cttcagaagggaaggagccctcagctccagggagaaattccaaggaggtgaggaactgcaaggag	2520
Oy	2521	tgaggagcgtctggagctgagcgggtgtctgtaaaagcaggaaggtgaaaggcagaagctgaa	2580
Db	2521	tgaggagcgtctggagctgagcgggtgtctgtaaaagcaggaaggtgaaaggcagaagctgaa	2580

QY 2581 gctgcccagatggtcagtggtgttctcagcggcgctgggagtttccgtgtctctgtgagc 2640
|||||
DB 2581 gctgcccagatggtcagtggtgttctcagcggcgctgggagtttccgtgtctctgtgagc 2640
2641 cttcttaacctctctcgtctctgagaggaagatcattctcaatgaaggaatcagtttc 2700
|||||
DB 2641 cttcttaacctctctcgtctctgagaggaagatcattctcaatgaaggaatcagtttc 2700
QY 2701 ataaagtcagctgtctaaatctcaggggtgtgtcaatgggtctctctcaggaagccttat 2760
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DB 2701 ataaagtcagctgtctaaatctcaggggtgtgtcaatgggtctctctcaggaagccttat 2760
QY 2761 ttaatgggaataataggaagagatcattctcagagcgttaattcaaggaagaatgtac 2820
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DB 2761 ttaatgggaataataggaagagatcattctcagagcgttaattcaaggaagaatgtac 2820
QY 2821 tggagctctctctctcaatgtctctctcaggaactcaagccgtgtgtgaaacttgctta 2880
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DB 2821 tggagctctctctctcaatgtctctctcaggaactcaagccgtgtgtgaaacttgctta 2880
QY 2881 tgcagaagacggtctgaaaaacttggaatcagagaactcgtttctctctgtgtctgcaat 2940
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DB 2881 tgcagaagacggtctgaaaaacttggaatcagagaactcgtttctctctgtgtctgcaat 2940
QY 2941 ggttggtctgtgagcaacgctgggcaagtgctctctctcctgggcaatgtctctctgtc 3000
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DB 2941 ggttggtctgtgagcaacgctgggcaagtgctctctctcctgggcaatgtctctctgtc 3000
QY 3001 ataaagacccctgcagactcgcgtgtctgtgaaacattccctctgaaattctctctgtgaggg 3060
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QY 3121 ggaagagagagagagagagagcgtgggtgtctccatcagttccatctgaatcagatcagctc 3180
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DB 3121 ggaagagagagagagagagagcgtgggtgtctccatcagttccatctgaatcagatcagctc 3180
QY 3181 caggagacggagagcacaatctcaggaagagctcaatgaaacccaagacacatttctcct 3240
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QY 3241 tccctaagcactagacaatgtgcaattgtgcaataaacaaaagaatgtcagagactaacgtgt 3300
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DB 3241 tccctaagcactagacaatgtgcaattgtgcaataaacaaaagaatgtcagagactaacgtgt 3300
QY 3301 ggttagcttttgcctgtgcatctcaaaaacttgggccaagagcaggtggaataatgtccagagatctg 3360
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DB 3301 ggttagcttttgcctgtgcatctcaaaaacttgggccaagagcaggtggaataatgtccagagatctg 3360
QY 3361 ttaaaacttctcaacccctgacacagacacccacagcagctcagcagtgactgtctgacagacgg 3420
|||||
DB 3361 ttaaaacttctcaacccctgacacagacacccacagcagctcagcagtgactgtctgacagacgg 3420
QY 3421 agtgcagctgcagcagcagggagagagaagaagaagagagatgtatgtagccaagaag 3480
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DB 3421 agtgcagctgcagcagcagggagagagaagaagaagagagatgtatgtagccaagaag 3480
QY 3481 aagagatctcaatagggagcgtgggaattgaaaccaaggggttatagccacgtgaaatccctgg 3540
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DB 3481 aagagatctcaatagggagcgtgggaattgaaaccaaggggttatagccacgtgaaatccctgg 3540
QY 3541 gttctagagagcagggcctatactgtgtgaggggaaaaaatacagttcaaggggaatctcgagaa 3600
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DB 3541 gttctagagagcagggcctatactgtgtgaggggaaaaaatacagttcaaggggaatctcgagaa 3600
QY 3601 cctgagcttctaaactatacttctccttcaagcgtgaatctctgagcaagttcaacag 3660
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QY 3661 gtatgaactgaagcgtgaagaatgaactagtttctccttatatagaactcttctctgtc 3720
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DB 3661 gtatgaactgaagcgtgaagaatgaactagtttctccttatatagaactcttctctgtc 3720
QY 3721 ggaagttagcagcacaaggggaatcccgcttctctttaaaggaaagaacattcctaagag 3780
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QY 3781 taaagccaacacagatctaaagccttaggtctgtgcataatgtatgtgttcttgaanaat 3840
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QY 3841 catttaagcgatgttaactatctgattcagaanaatgagactagtaaccttggtcagctg 3900
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QY 3901 taaacaaacccacagttgttaaggtctcaaggtctcaagcttaacttgcaagacataaaa- 3959
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DB 3901 taaacaaacccacagttgttaaggtctcaaggtctcaagcttaacttgcaagacataaaa- 3959
QY 3960 aagaatagaactcttagagcacaactgtgttctccacacatctggaagtgagctgcagag 4019
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DB 3961 aagaatagaactcttagagcacaactgtgttctccacacatctggaagtgagctgcagag 4019
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DB 4020 cagttcggaataatcttaactacagaatgatgacacgtgtgtgtgtatlaacaacataag 4079
QY 4080 ttgctcaagagcaatattatctcaagtggtctaaagtttaactcttcaagctttgtgtata 4139
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QY 4140 ttatattgcatgtgcaattgtgcttttgttcttctcctctggtgtttatlaatgtlaaagca 4199
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QY 4200 ggaattatlaaaccttaacagctcagaagcctgttgaaattgaaatgagaaaataatctaatlt 4259
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DB 4200 ggaattatlaaaccttaacagctcagaagcctgttgaaattgaaatgagaaaataatctaatlt 4259
QY 4260 ttgttttccacactcttaactaaatttaacattttatccattcgaatgagagccataaa 4319
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DB 4260 ttgttttccacactcttaactaaatttaacattttatccattcgaatgagagccataaa 4319
QY 4320 actcaaatgtgtaataacagtaactgttgatttctgtcatatlaacaaatgaacagacat 4379
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DB 4320 actcaaatgtgtaataacagtaactgttgatttctgtcatatlaacaaatgaacagacat 4379
QY 4380 ttataactatatacagctgtgtgcagatacgtgtgtaagtgaataatttatactcaaacat 4439
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DB 4380 ttataactatatacagctgtgtgcagatacgtgtgtaagtgaataatttatactcaaacat 4439
QY 4440 actttgaaatctagacctctcgtcgtggaatctgtttttaaacaatttaacaaacatgtttaa 4499
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DB 4440 actttgaaatctagacctctcgtcgtggaatctgtttttaaacaatttaacaaacatgtttaa 4499
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DB 4500 aatttgaatatttgataatcaatattcaatlttgatttctccttgtgaatcaatatt 4559
QY 4560 tatataattgaaacaactcttctgagaaaggtccccaagatttcccaatlgaggtctgtg 4619
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DB 4560 tatataattgaaacaactcttctgagaaaggtccccaagatttcccaatlgaggtctgtg 4619
QY 4620 gcatgcacacacacagagtaagaactgatttgagagcttaacaatgtgctgtgacgtgag 4679
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DB 4620 gcatgcacacacacagagtaagaactgatttgagagcttaacaatgtgctgtgacgtgag 4679
QY 4680 atgcagaactggaatlaagaagttctcccaagaatatacaagttgttttlaaagctaggggt 4739
|||||
DB 4680 atgcagaactggaatlaagaagttctcccaagaatatacaagttgttttlaaagctaggggt 4739
QY 4740 gaggggggaatatctgcgctctctataggaatgtctctcctgagaccctgtaggtgtgtc 4799
|||||

[illegible]

XX	WP1: 1998-427946/36.
DR	
XX	Use of TIR nucleic acid sequences - used for, e.g., developing
PT	products for diagnosis, prognosis and treatment of glaucoma
XX	
PS	Disclosure: Fig 2; 105pp; English.
XX	
CC	This sequence is a trabecular meshwork induced glucocorticoid response
CC	protein (TRGR) promoter mutant, TRGmpt3, which is used in a method for
CC	diagnosing glaucoma in a patient. The method involves the detection of
CC	polymorphisms whose presence is predictive of a mutation affecting TRGR
CC	response in the patient and can be diagnostic of glaucoma or steroid
CC	sensitivity. Base substitutions and base additions upstream of and within
CC	TRGR exons can also be used to diagnose glaucoma.
XX	
SQ	Sequence 5304 BP: 1482 A; 1152 C; 1237 G; 1433 T; 0 other;
	Query Match 76.7%; Score 4731; DB 19; Length 5304;
	Best Local Similarity 99.9%; Pred. No. 0;
	Matches 5021; Conservative 0; Mismatches 1; Indels 2; Gaps 2;
QY	1 atccttgcagttacacctcaagggtatataatgaaatgagaataccaatgtgaag 60
DB	1 atccttgctcacattaccctcaagggtatatataaatgaaatgagaataccaatgtgaag 60
QY	61 tcccttaaaccttatagaccttcacatcggtatgtatctcttggcaagatgataaagaatca 120
DB	61 tcccttaaaccttatagaccttcacatcggtatgtatctcttggcaagatgataaagaatca 120
QY	121 ggaagaagaagagatcacagttagccaagtgctccaggctgctgctctcatattagtga 180
DB	121 ggaagaagaagagatcacagttacagtttagccaagtgctccaggctgctgctctcatattagtga 180
QY	181 cgaatgtgtgcccttcyacaagaagctatctcttcagaaacacacacatccaatatgtgtaalc 240
DB	181 cgaatgtgtccctctgaagaagctatctcttcagaaacacacacatccaatatgtgtaaalcc 240
QY	241 catcaaacaggagctcaaagaacaggaatgagttggccaattggccaagaagaaaatggccag 300
DB	241 catcaaacaggagctcaaagaacaggaatgagttggccacttggccaagaagaaaatggccag 300
QY	301 ggagaccaaatatgatgaaaaataaactttcccttgttcttaatttcaggaagaaaatg 360
DB	301 ggagaccaaatatgatgaaaaataaactttcccttgttcttaatttcaggaagaaaatg 360
QY	361 atcyagaccnaaatcaatgaataagaagaaacagctcaganaaaaagtgtlccaaatlbg 420
DB	361 atcyagaccnaaatcaatgaataagaagaaacagctcaganaaaaagtgtlccaaatlbg 420
QY	421 taattaagtattctgtccttgggaagagagcctccatgtgagcttgtatggaaatvggaa 480
DB	421 taatttaagtattctgtccttgggaagagagcctccatgtgagcttgtatggaaatvggaa 480
QY	481 aaacgtcaaaagcatgatctgtatcgatcccacaagtgagttatattttaaaaccagat 540
DB	481 aaacgtcaaaagcatgatctgtatcgatcccacaagtgagttatattttaaaaccagat 540
QY	541 ggcatcacctctgggagagcaagtctcaggaaggltcalgttagcaaaagagacataaataaac 600
DB	541 ggcatcacctctgggagagcaagtctcaggaaggltcalgttagcaaaagagacataaataaac 600
QY	601 agcaaaatcaaaatccgcgaaaatgcagagagaaatcggagacttggaaatgacttctaabc 660
DB	601 agcaaaatcaaaatccgcgaaaatgcagagagaaatcggagacttggaaatgacttctaabc 660
QY	661 agtggatgaagcagttgacaatgtctgcacaacctccccgtcatatcccaagggaacaaaaa 720
DB	661 agtggatgaagcagttgacaatgtctgcacaacctccccgtcatatcccaagggaacaaaaa 720
QY	721 atttgactggggccaagccttgactttcaagagaaatattgaaaaaatcagagacaaaanaa 780
DB	721 atttgactggggccaagccttgactttcaagagaaatattgaaaaaatcagagacaaaanaa 780

Db	721	atcgactggtc	atgacctgga	cttccaaggga	atataga	aaactgag	caaaacaaa	760
Qy	781	gacatggtata	aaaggca	accagaaca	ctgtgag	ccctcca	aggagctgccc	840
Db	781	gacatggtata	aaaggca	accagaaca	ctgtgag	ccctcca	aggagctgccc	840
Qy	841	ggagaccctga	ggacattg	gctcttaaga	aaagcgaa	gttctcta	aggaaacctaa	900
Db	841	ggagaccctga	ggacattg	gctcttaaga	aaagcgaa	gttctcta	aggaaacctaa	900
Qy	901	ctgaagaatca	tgaattta	accattta	aaagca	atataga	aaatctgag	960
Db	901	ctgaagaatca	tgaattta	accattta	aaagca	atataga	aaatctgag	960
Qy	961	cttaagaatga	tggtccca	atttata	aaagca	atataga	aaatctgag	1020
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Qy	1021	ggataggtca	gaataatca	ataga	aaatca	atagctg	ctccca	1080
Db	1021	ggataggtca	gaataatca	ataga	aaatca	atagctg	ctccca	1080
Qy	1081	tgatcaatg	ccctca	acagagcc	gagtg	ctgag	ccctca	1140
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Qy	1141	gtgctcaaac	ccattgt	ataacgt	tgca	ctcag	taggtcc	1200
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Qy	1201	tggtgacg	cccatc	ccgctcca	acagagat	ctccca	ctcag	1260
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Qy	1261	tcacagcaga	aagctcc	gtgaggg	tgaggt	ctgtg	ctta	1320
Db	1261	tcacagcaga	aagctcc	gtgaggg	tgaggt	ctgtg	ctta	1320
Qy	1321	accctgaag	ctcaactg	gctccca	agt	ctca	aaatctc	1380
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Qy	1561	cttaataaga	aatatga	cttgat	ctta	aaacaa	agggaa	1620
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Qy	1621	taattcaaga	ggatctct	tgga	tgagg	aaatg	tgcc	1680
Db	1621	taattcaaga	ggatctct	tgga	tgagg	aaatg	tgcc	1680
Qy	1681	caatggtc	ctca	atctct	ctcc	ctca	atctca	1740
Db	1681	caatggtc	ctca	atctct	ctcc	ctca	atctca	1740
Qy	1741	caatggtc	ctca	atctct	ctcc	ctca	atctca	1800
Db	1741	caatggtc	ctca	atctct	ctcc	ctca	atctca	1800
Qy	1801	ctcaatg	gtcga	atctct	ctcc	ctca	atctca	1860
Db	1801	ctcaatg	gtcga	atctct	ctcc	ctca	atctca	1860

Qy	1861	tgaaagcccc	ggcaga	ggttct	ctctcc	agctg	gggag	ccctg	caag	ccccgg	gtcc	1920
Db	1861	tgaaagcccc	ggcaga	ggttct	ctctcc	agctg	gggag	ccctg	caag	ccccgg	gtcc	1920
Qy	1921	tggtgtct	tgag	caactg	ccag	ccgtg	ccac	tggtgt	ttgt	atca	ctctag	1980
Db	1921	tggtgtct	tgag	caactg	ccag	ccgtg	ccac	tggtgt	ttgt	atca	ctctag	1980
Qy	1981	gacctgtg	ctctat	ctctct	ctg	tgag	actg	ctctat	ctca	ccag	gga	2040
Db	1981	gacctgtg	ctctat	ctctct	ctg	tgag	actg	ctctat	ctca	ccag	gga	2040
Qy	2041	tattgag	tacta	tatctg	ccag	acccag	agacaa	atg	tgag	caag	caag	2100
Db	2041	tattgag	tacta	tatctg	ccag	acccag	agacaa	atg	tgag	caag	caag	2100
Qy	2101	cttaactg	tgtag	aggtg	agac	gttct	cat	tgga	agac	gtg	caga	2160
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Qy	2161	ggcaactta	aaccag	tgctg	aaagaa	agaa	taaac	acac	cttg	aaat	tg	2220
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Qy	2341	gctctg	ctccg	tgat	cgctc	tg	tgca	ctc	tgag	ctc	tgag	2400
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Qy	2401	ccagaa	aggaa	at	tgag	agga	aa	ctag	ctca	agga	at	2460
Db	2401	ccagaa	aggaa	at	tgag	agga	aa	ctag	ctca	agga	at	2460
Qy	2461	ctcaag	ggagaa	ggg	gctcc	acag	gtcc	acag	gagat	ctcc	ag	2520
Db	2461	ctcaag	ggagaa	ggg	gctcc	acag	gtcc	acag	gagat	ctcc	ag	2520
Qy	2521	tggtgag	cgtc	ggg	gctg	agc	ggg	tgct	gaa	agga	gg	2580
Db	2521	tggtgag	cgtc	ggg	gctg	agc	ggg	tgct	gaa	agga	gg	2580
Qy	2581	gctgcca	agat	gtl	ca	gggt	ctg	gag	gtt	ctc	gt	2640
Db	2581	gctgcca	agat	gtl	ca	gggt	ctg	gag	gtt	ctc	gt	2640
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Db	2641	cttttata	ctct	ctct	gct	tgag	agga	agat	ctca	tgag	ag	2700
Qy	2701	ataaag	tcag	gtt	aaat	ctcc	aggt	gtg	ca	tgag	gtt	2760
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Qy	2761	ctaatg	gaata	atag	aa	cgag	ctcat	ctc	tag	cg	ct	2820
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Qy	2881	tgcaag	agct	gca	aa	act	tgga	at	ca	ag	ag	2940
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QY 4980 gtgtgaagtggtgtacagtggt 5023
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Db 4980 gtgtgaagtggtgtacagtggt 5023

RESULT 12
AAAS7485
ID AAAS7485 standard; DNA: 5304 BP.
XX
AAAS7485:

XX 20-OCT-2000 (first entry)
XX A TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter.
XX TIGR: trabecular meshwork inducible glucocorticoid receptor; promoter;
XX glaucoma; steroid sensitivity; progressive ocular hypertension;
XX vision loss; ss.
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
FH replace (4337, G)
FT /tag= a
FT /note= "TIGRm1 mutant"
FT replace (4950, T)
FT /tag= b
FT /note= "TIGRm2 mutant"
FT 4998
FT /tag= c
FT /note= "GTGT added to produce TIGRm3 mutant"
FT replace (4256, G)
FT /tag= d
FT /note= "TIGRm4 mutant"
FT replace (5117, C)
FT /tag= e
FT /note= "TIGRm11 mutant"
XX
XX WO200042220-A1.
XX 20-JUL-2000.
XX
XX 11-JAN-2000: 2000WO-US00559.
XX 11-JAN-1999: 99US-0227881.
XX 07-MAY-1999: 99US-0306828.
XX
XX (REGC) UNTV CALIFORNIA.
XX
XX Nguyen TD, Polansky JR, Chen P, Chen H;
XX
XX WPI: 2000-491060/43.
XX
XX Diagnosis, prognosis and treatment of glaucoma, based on detecting
XX specific polymorphisms in the promoter of the trabecular meshwork
XX inducible glucocorticoid receptor gene .
XX
XX Claim 79: Fig 2A-E: 122pp; English.
XX
XX The present sequence represents a sequence variant of the TIGR
XX (trabecular meshwork inducible glucocorticoid receptor) promoter.
XX The specification describes a method for the diagnosis, prognosis
XX and treatment of glaucoma, based on detecting specific polymorphisms
XX in the promoter of the TIGR gene. The method is used for diagnosis
XX and prognosis of glaucoma (of all types), steroid sensitivity
XX and progressive ocular hypertension that leads to loss of vision.
XX Glaucoma can be treated by administering an agent that binds to
XX cis-acting elements within the TIGR promoter. The TIGR promoter (or
XX other regulatory regions) can be used to express homologous or
XX heterologous genes, particularly for tissue-specific expression of
XX therapeutic transgenes for treating glaucoma, also to generate
XX transgenic animals and in screening for compounds (specific modulators)
XX with diagnostic or therapeutic potential. Fragments of the TIGR
XX sequence can be used as amplification primers or probes, e.g. for
XX isolating related sequences in non-human animals.
XX
XX Sequence 5304 BP: 1481 A; 1150 C; 1239 G; 1434 T; 0 other:

Query Match 72.6%; Score 4476; DB 21; Length 5304;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 5016; Conservative 0; Mismatches 6; Indels 2; Gaps 2;

QY 1 acctgtgtcagttaccctcagggtctatctgaatgaaatgagataaccatgtgaaag 60
DB 1 acctgtgtcagttaccctcagggtctatctgaatgaaatgagataaccatgtgaaag 60
QY 61 tctataaactgtatagccctccatctggatgtatgtcttggcagatgtataagaatca 120
DB 61 tctataaactgtatagccctccatctggatgtatgtcttggcagatgtataagaatca 120
QY 121 ggaagaaggagatccacgtttagcgaagtgtccaggctgtgtcgtccttattgttga 180
DB 121 ggaagaaggagatccacgtttagcgaagtgtccaggctgtgtcgtccttattgttga 180
QY 181 cagatgtgtcctcgtgacagaagatcttctcaggaaacatcacatcatgttaatc 240
DB 181 cagatgtgtcctcgtgacagaagatcttctcaggaaacatcacatcatgttaatc 240
QY 241 catcaaacggagctagaagaacagatgagatgggcacttgcctcagaagaatctccag 300
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QY 301 gagaacaaatcatgataaataaacttcccttgttttaatttcaggaaaaatg 360
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Dh	1141	gtgcctcaacaatglttaacgtgtlcatctcagtaagttcccatltaacaatgcaactcccc	1200
Qy	1201	tgltgacacacatcccgctccacagagaagtlctcccaactagactctcgatcacagatgt	1260
Dh	1201	tgltgacacacatcccgctccacagagaagtlctcccaactagactctcgatcacagatgt	1260
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QY 3301 ggtagcttctgctbgtcatctcaaaaacttggccagagcaagtggaaaaatgccaagatactg 3360
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4260 tctgtcttcaacacctctcaactaaatttaacatcttataccatctgcgaatagagcataa 4319
Db 4260 tctgtcttcaacacctctcaactaaatttaacatcttataccatctgcgaatagagcataa 4319
QY 4320 acctcaagtgtaataacagtaactgtgatttctgtcaatacgaatagaatccacagacat 4379
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Db 4500 aatttgaatacttgaataacataattcatalcatcattgtcttccctgttaatactatactt 4559
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4560 tatatacttgaaaaacacatcttctgagaagaaggtccccaagattccaacaaatgagctctg 4619
Db 4560 tatatacttgaaaaacacatcttctgagaagaaggtccccaagattccaacaaatgagctctg 4619
QY 4620 gcatgacacacacacagagtgtaagaactgattttaaggttaacattgacatctgtgtccctgag 4679
4620 gcatgacacacacacagagtgtaagaactgattttaaggttaacattgacatctgtgtccctgag 4679
Db 4620 gcatgacacacacacagagtgtaagaactgattttaaggttaacattgacatctgtgtccctgag 4679
QY 4680 atgcaagactgaaattgagaagttctcccaagaatacacagctgttttaagcttaagggt 4739
4680 atgcaagactgaaattgagaagttctcccaagaatacacagctgttttaagcttaagggt 4739
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QY 4740 gaggggggaaatctgcccgtctcctataagaaatgctctccctgcagagcctgtgtaaggctgt 4799
4740 gaggggggaaatctgcccgtctcctataagaaatgctctccctgcagagcctgtgtaaggctgt 4799
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RESULT 13
AAZ37968
ID AAZ37968 standard; DNA: 2800 BP.
XX
AC AAZ37968;
XX
XX
DT 07-FEB-2000 (first entry)
XX
DE Human GLCIA gene exon 1 and flanking sequences.
XX
XX Glaucoma; PCR amplification; primary open wide angle glaucoma;
KM GLCIA gene; exon; human; ss.
XX
OS Homo sapiens.
XX
PN W09951779-A2.
PN
PD 14-OCT-1999.
PD
PF 07-APR-1999: 99WO-US07671.
PF
PR 07-APR-1998: 98US-0056285.
PR
XX
PA (IOWA) UNIV IOWA RES FOUND.
PA
PI Stone EM, Sheffield VC, Alward WLM, Flingert J;
PI
XX
XX WPI: 2000-022956/02.
DR

XX Determination of a predisposition to gliucoma by analysing mutations in
PT the GLC1A gene -
XX
XX PS Disclosure; Fig 1A; 137pp; English.
XX
CC The invention relates to a method for the determination of a
CC predisposition to gliucoma. The method comprises amplifying a GLC1A gene
CC with a primer pair selected from the sequences shown in AA437961-738008.
CC The primers are used to determine whether a subject has or has the
CC potential to develop primary open wide angle gliucoma. The present
CC sequence represents the human GLC1A gene exon 1 and flanking sequences.
XX
SQ Sequence 2800 BP; 781 A; 588 C; 673 G; 758 T; 0 other;

Query Match 37.0%; Score 2285; DB 21; Length 2800;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2575; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

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DB 79 acccaaggatataagtcacagtcgaltccctgggtctcctagaggcagggtatatttgagg 138
QY 3570 ggaaaaaaacagtcacaaggagagtcgggagaccttgatctcaatactatatttcctt 3629
DB 139 ggaaaaaaacagtcacaaggagagtcgggagaccttgatctcaatactatatttcctt 198
QY 3630 acaagcctgagaaattctgagcaagtcacaagtcagtaactgagctgtaaaatccttag 3689
DB 199 acaagcctgagaaattctgagcaagtcacaagtcagtaactgagctgtaaaatccttag 258
QY 3690 ttctcctctatagaaactcttctctctgctggagttagcagcaaaaggagcaatccgtt 3749
DB 259 ttctcctctatagaaactcttctctctgctggagttagcagcaaaaggagcaatccgtt 318
QY 3750 tctttaaagagaaataaatactcctaagagtaaaagccaacacagatccaagcctagctt 3809
DB 319 tctttaaagagaaataaatactcctaagagtaaaagccaacacagatccaagcctagctt 378
QY 3810 tgcgcgactatagtgtgttttctgaaaaacattctcagcgatgtttctctcgtatcca 3869
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RESULT 14
AAV37618
ID AAV37618 standard; DNM: 3493 BP.
XX
AC AAV37618;
XX
DT 14-SEP-1998 (first entry)
XX
DE Human glaucoma associated GLC1A genomic sequence.
XX
KW Glaucoma; GLC1A; treatment; mutant; juvenile open angle glaucoma;
KM JOAG; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
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FT /*tag= g
FT 3'UTR 3020..3493
FT /*tag= h

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XX 14-MAY-1998.
XX
XX 07-NOV-1997; 97MO-US20702.
XX
XX 21-MAR-1997; 97US-082299.
XX
XX 08-NOV-1996; 96US-0748479.
XX
XX 30-JAN-1997; 97US-0791347.
XX
XX (IOWA ) UNIV IOWA RES FOUND.
XX
XX Alward WLM, Sheffield V, Stone EW;
XX
XX MPI: 1998-286947/25.
XX
XX P-PSDB: AAM60670.
XX
XX New isolated gene associated with glaucoma - used to develop
XX products to determine whether a subject has, or is at risk of,
XX developing glaucoma, and for treating or preventing glaucoma
XX
XX Claim 1: Fig 1A-B: 116pp: English.
XX
XX This represents the genomic sequence of the human GLC1A gene which is
XX associated with juvenile open angle glaucoma (JOAG). The gene can be used
XX for the development of assays for identifying molecules that modulate
XX (agonists or antagonists) the bioactivity of a functional or mutant gene
XX or protein. Modulators may be an antibody, protein, peptide or
XX peptidomimetic or a nucleic acid, e.g. antisense sequence, ribozyme or
XX triple helix forming nucleic acid. These molecules can be administered to
XX a subject with glaucoma or at risk for developing glaucoma to prevent or
XX reduce the severity of the condition. Derivatives of GLC1A gene can be
XX used to detect lesions of the GLC1A gene which are indicative of glaucoma
XX or predisposition to glaucoma.
XX
XX Sequence 3493 BP; 929 A; 840 C; 840 G; 871 T; 13 other:

Query Match 11.1%; Score 685; DB 19; Length 3493;
Best Local Similarity 99.9%; Pred. No. 3.7e-308;
Matches 735; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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    |||||||
Db 195 tgcagctgtcagcagcttgggagcctgagatgccagctgtcctctgacctg 254
Oy 5411 cctgtgtgagtggtgtggtgggccaagcgaactcagctcagaagagccaatgaccagagtg 5470
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Db 255 cctgtgtgagtggtgtggtgggccaagcgaactcagctcagaagagccaatgaccagagtg 314
Oy 5471 ccgattccagataactcagtggtgagcagctcccaatgaaatgaaatgagctggccagagagag 5530
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QY	5771	cctccgagagacaagtcagctctctgagagagagagaaagacggaactaaagtcagagaaaaatgagaa	5830
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QY	5831	tcctgagccaaagagagcttgagaaagcagacagccagagggcttgagcgaagctctgagaaagggccagctg	5890
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QY	5891	tcccccagagaccggagaaactctctggagcttgagcaaccagagcttccagagaaagtaagaaatgc	5950
Db	735	tcccccagagaccggagaaactctctggagcttgagcaaccagagcttccagagaaagtaagaaatgc	794
QY	5951	agagctggggggagactctgagttcagacagtgatataatgagcttgagagagcttgacacagcgcc	6010
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RESULT	15
AAV51391	
ID	AAV51391 standard; cDNA; 1548 BP.
XX	
AC	AAV51391;
XX	
DT	27-OCT-1998 (first entry)
XX	
DE	Human TIGR CDNA.
XX	
TIGR:	Trabecular meshwork induced glucocorticoid response protein; human,
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; ss.
XX	
OS	Homo sapiens.
XX	
FH	Key
FT	CDS
FT	Location/Qualifiers
TT	37..1548
FT	/tag= a
FT	/product= TIGR
XX	
PN	WO9832850-A1.
XX	
PD	30-JUL-1998.
XX	
PF	09-JAN-1998; 98WO-US00468.
XX	
PR	26-SEP-1997; 97US-0938669.
XX	
PR	28-JAN-1997; 97US-0791154.
XX	
PA	(RECC) UNIV CALIFORNIA.
XX	
PI	Chen H, Chen P, Nguyen TD, Polansky JR;
XX	
DR	WPI: 1998-42946/36.
XX	
P-PSDB:	AAW64669.
XX	
PT	Use of TIGR nucleic acid sequences - used for, e.g. developing

PT	products for diagnosis, prognosis and treatment of glaucoma
XX	
PS	Claim 48; Fig 7; 105pp; English.
XX	
CC	This cDNA sequence encodes a novel human trabecular meshwork induced
CC	glucocorticoid response protein (TIGR) which is used in a method for
CC	diagnosing glaucoma in a patient. The method involves the detection of
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR
CC	response in the patient and can be diagnostic of glaucoma or steroid
CC	sensitivity. Base substitutions and base additions upstream of and within
CC	TIGR exons can also be used to diagnose glaucoma.
XX	
SQ	Sequence 1548 BP; 402 A; 418 C; 431 G; 297 T; 0 other:

Query Match		10.4%	Score 640:	DB 19:	Length 1548:
Best Local Similarity		100.0%:	Pred. No. 3e-287:		
Matches 640:		Conservative 0:	Mismatches 0:	Indels 0:	Gaps
QY	5301	aaagcttccagaggaagcctccacaagcctctgcacatgaggtctctctctgcacgtctgc	5360		
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QY	5361	tgcagccttgcggcctctgagatgcacagctctgcacagctctgcctctgccttgcctgtgc	5420		
DB	61	tgcagccttgcggcctctgagatgcacagctctgcacagctctgcctctgccttgcctgtgc	120		
QY	5421	gactctggggggccagaaagacgtctccagctccagaaaggccaaatgcacaaagctgcgcgatgcag	5480		
DB	121	gactctggggggccagaaagacgtctccagctccagaaaggccaaatgcacaaagctgcgcgatgcag	180		
QY	5481	tatcctctcagttgtgcgaagtcccaatgaaatccagctctgccagagcagacccagctcgt	5540		
DB	191	tatcctctcagttgtgcgaagtcccaatgaaatccagctctgccagagcagacccagctcgt	240		
QY	5541	tcaatcattacatcaactatctacagagagacacacacacacacacacacacacacacacacac	5600		
DB	241	tcaatcattacatcaactatctacagagagacacacacacacacacacacacacacacacacac	300		
QY	5601	aaagctctgaactcaactctccctgcgagagcctctctccacaaatgcagctctgcacacagctgc	5660		
DB	301	aaagctctgaactcaactctccctgcgagagcctctctccacaaatgcagctctgcacacagctgc	360		
QY	5661	aggcccccaaggagaccacagggggggctgcgcagaaaggagctctgcggacacctgcagggagacgg	5720		
DB	361	aggcccccaaggagaccacagggggggctgcgcagaaaggagctctgcggacacctgcagggagacgg	420		
QY	5721	gaccagctgcgaaacccaaacaaacagaaagctgcgagactctccatcagacaaacctctccgaagac	5780		
DB	421	gaccagctgcgaaacccaaacaaacagaaagctgcgagactctccatcagacaaacctctccgaagac	480		
QY	5781	aagctcagttctcgggggagaaagaaagcgatataaggccaaagaaataatctgcgcagg	5840		
DB	481	aagctcagttctcgggggagaaagaaagcgatataaggccaaagaaataatctgcgcagg	540		
QY	5841	aggtctggaaagcagacacacacagggggtatgcagaaagctctgagaaaggggcagttctcccaagac	5900		
DB	541	aggtctggaaagcagacacacacagggggtatgcagaaagctctgagaaaggggcagttctcccaagac	600		
QY	5901	cgaagacactgtcggcgtctgtgccacacagcgtctccagagaag	5940		
DB	601	cgaagacactgtcggcgtctgtgccacacagcgtctccagagaag	640		

Search completed: November 9, 2001, 03:35:48
Job time: 14561 sec

Use of TIGR nucleic acid sequences - used for, e.g. developing

